

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--|------------------|---------|---------------------|
| S1 | 417 | clapper.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/11/15 15:35 |
| S2 | 1 | clapper.in. and ("37"/\$.ccls.) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/07/25 19:15 |
| S3 | 133 | (37/406).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/07/25 19:39 |
| S4 | 3 | ("3273729" "3807589" "4327509"). PN. | USPAT | OR | ON | 2004/07/25 19:51 |
| S5 | 22 | "4375345".URPN. | USPAT | OR | ON | 2004/07/25 19:52 |
| S6 | 4 | ("3275172" "4407626" "4519739" "4548543").PN. | USPAT | OR | ON | 2004/07/25 19:54 |
| S7 | 2 | "4770597".URPN. | USPAT | OR | ON | 2004/07/25 19:55 |
| S8 | 3 | ("4515522" "4517755" "4519739"). PN. | USPAT | OR | ON | 2004/07/25 19:55 |
| S9 | 3 | "4803788".URPN. | USPAT | OR | ON | 2004/07/25 19:56 |
| S10 | 8 | ("3061123" "4283866" "4285628" "4375345" "4466494" "4519739" "4804309" "4932832").PN. | USPAT | OR | ON | 2004/07/25 19:56 |
| S11 | 9 | "5111602".URPN. | USPAT | OR | ON | 2004/07/25 19:57 |
| S12 | 5 | ("4375345" "4660654" "5111602" "5553408" "5678332").PN. | USPAT | OR | ON | 2004/07/25 19:59 |
| S13 | 1 | "6209237".URPN. | USPAT | OR | ON | 2004/07/25 20:00 |
| S14 | 623 | ("37"/\$.ccls. or "414"/\$.ccls.) and (spring near3 detent) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/01/12 11:19 |
| S15 | 634 | ("37"/\$.ccls. or "414"/\$.ccls.) and (spring near3 (detent or protuberance)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/01/12 11:22 |
| S16 | 89 | ("37"/\$.ccls. or "414"/\$.ccls.) and ((spring near3 (detent or protuberance)) with (hole or recess)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/01/12 11:22 |
| S17 | 5 | ("3325926").URPN. | USPAT | OR | ON | 2005/01/12 11:27 |
| S18 | 13 | ("3327994" "3463521" "3588154" "3884508" "3952433" "4123091" "4245920" "4326348" "4613172" "4773474").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/12 11:31 |

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|-----|-----|---|--|----|-----|---------------------|
| S19 | 8 | ("4848013").URPN. | USPAT | OR | ON | 2005/01/12 11:32 |
| S20 | 31 | ("2963183" "3204793" "3220487" "3231117" "3269570" "3672521" "3732996" "3760883" "3794195" "3818551" "3845871" "3964622" "3984016" "3985249" "4030624" "4106645" "4119225" "4136792" "4243356" "4545720" "4586867" "4812103" "5078569" "5098252" "5263810" "5419673").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/12 11:35 |
| S21 | 3 | ("5685689").URPN. | USPAT | OR | ON | 2005/01/12 11:37 |
| S22 | 159 | (37/406).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/01/12 15:53 |
| S23 | 5 | ("3991890" "4155473" "4403906" "5111602" "5129780").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/27 13:04 |
| S24 | 2 | ("5314292").URPN. | USPAT | OR | ON | 2005/06/27 13:04 |
| S25 | 9 | ("4375345" "4407626" "4466494" "4803788" "4804309" "4845867" "4910891" "4932832" "5553408"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/27 13:14 |
| S26 | 17 | ("5678332").URPN. | USPAT | OR | ON | 2005/06/27 13:15 |
| S27 | 3 | ("4375345" "4403906" "5678332"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/27 13:21 |
| S28 | 8 | ("5927933").URPN. | USPAT | OR | ON | 2005/06/27 13:21 |
| S29 | 6 | ("4407626" "4558515" "5544435" "5553408" "5678332" "5927933"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/27 13:22 |
| S30 | 3 | ("6203267").URPN. | USPAT | OR | ON | 2005/06/27 13:23 |
| S31 | 10 | ("4407626" "4519739" "4635386" "4932832" "5094581" "5111602" "5553408" "5678332" "6203267" "6260294").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/27 13:24 |
| S32 | 1 | ("6640471").URPN. | USPAT | OR | ON | 2005/06/27 13:25 |
| S33 | 19 | ("2979215" "3250028" "3595411" "4077529" "4278368" "4327509" "5269382" "5315772" "5417064" "5472308" "5522221" "5553408" "5678332" "5733059" "5797461" "5868211" "5927933").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/27 13:25 |
| S34 | 0 | ("6655053").URPN. | USPAT | OR | ON | 2005/06/27 13:26 |
| S35 | 1 | ("1754463").URPN. | USPAT | OR | ON | 2005/06/27 14:30 |
| S36 | 6 | ("2042196" "2912774" "4087010" "4375345").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/27 14:30 |

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|-----|-----|---|--|----|-----|---------------------|
| S37 | 9 | ("4466494").URPN. | USPAT | OR | ON | 2005/06/27 14:31 |
| S38 | 13 | "37"/\$.ccls. and (bucket same stick same hydraulic same fasten\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/28 14:24 |
| S39 | 1 | "37"/\$.ccls. and (bucket same stick same pneumatic same fasten\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/28 14:24 |
| S40 | 8 | "37"/\$.ccls. and "spring detent" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/28 14:25 |
| S41 | 41 | "37"/\$.ccls. and (thumb same spring) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/28 14:31 |
| S42 | 934 | "37"/\$.ccls. and (arm with spring) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/28 14:31 |
| S43 | 265 | "37"/\$.ccls. and (arm with spring) and (bucket or backhoe or back-hoe) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/28 14:31 |
| S44 | 265 | "37"/\$.ccls. and (arm with spring) and (bucket or backhoe or back?hoe) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/28 16:22 |
| S45 | 2 | ("4798044").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/28 16:22 |
| S46 | 745 | (37/468,406,408,903).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/25 11:47 |
| S47 | 0 | ((("4268214(USPAT)") or ("4355945(USPAT)") or ("4411584(USPAT)") or ("4793765(USPAT)") or ("4890974(USPAT)") or ("4955779(USPAT)") or ("4958981(USPAT)") or ("5176491(USPAT)") or ("5727342(USPAT)") or ("5966850(USPAT)") or ("6120237(USPAT)") or ("6354790(USPAT)") or ("6843005(USPAT)") or ("6857843(USPAT)") or ("5471908(USPAT)") or ("4274797(USPAT)") or ("4278394(USPAT)") or ("4318663(USPAT)") or ("4373852(USPAT)") or ("4403905(USPAT)") or ("4431363(USPAT)") or ("4845867(USPAT)") or ("4871292(USPAT)") or ("4950127(USPAT)") or ("5423625(USPAT)") or ("5556217(USPAT)") or ("5810101(USPAT)") or ("5813822(USPAT)") or ("5865492(USPAT)") or ("5971455(USPAT)") or | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/26 16:00 |

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|-----|-----|--|--|----|-----|---------------------|
| | | ("5975604(USPAT)") or ("3624785(USPAT)") or ("3872985(USPAT)") or ("3871538(USPAT)") or ("4032015(USPAT)") or ("4049139(USPAT)") or ("4341501(USPAT)") or ("4365428(USPAT)") or ("4370090(USPAT)") or ("4558515(USPAT)") or ("4770597(USPAT)") or ("4771540(USPAT)") or ("5179794(USPAT)") or ("5245770(USPAT)") or ("5316709(USPAT)") or ("5634735(USPAT)") or ("6139212(USPAT)") or ("6196265(USPAT)") or ("6220291(USPAT)") or ("6220291(USPAT)") or ("6230740(USPAT)") or ("6241455(USPAT)") or ("6314667(USPAT)") or ("6321787(USPAT)") or ("6401369(USPAT)") or ("6460569(USPAT)") or ("6619319(USPAT)") or ("4808061(USPAT)") or ("5815960(USPAT)") or ("3787163(USPAT)") or ("4293270(USPAT)") or ("4517756(USPAT)") or ("4595240(USPAT)") or ("4773814(USPAT)") or ("4808027(USPAT)") or ("4810162(USPAT)") or ("4859138(USPAT)") or ("5228231(USPAT)") or ("5400531(USPAT)") or ("5435084(USPAT)") or ("5452529(USPAT)") or ("5537808(USPAT)") or ("5606809(USPAT)") or ("5678332(USPAT)") or ("RE37339(USPAT)") or ("6561717(USPAT)") or ("6662479(USPAT)") or ("4345514(USPAT)") or ("3627156(USPAT)") or ("3586184(USPAT)") or ("3580405(USPAT)") or ("3680722(USPAT)") or ("3669287(USPAT)") or ("3666124(USPAT)") or ("3656595(USPAT)") or ("3633773(USPAT)") or ("3920137(USPAT)") or ("3910044(USPAT)") or ("3896950(USPAT)") or ("3874533(USPAT)") or ("3828950(USPAT)") or ("3807589(USPAT)") or ("3807586(USPAT)") or ("4000616(USPAT)") or ("4015730(USPAT)") or ("4026428(USPAT)") or ("4042131(USPAT)") or ("4133121(USPAT)") or ("4131210(USPAT)") or ("4251933(USPAT)").PN. | | | | |
| S48 | 218 | ("4268214") or ("4355945") or ("4411584") or ("4793765") or ("4890974") or ("4955779") or ("4958981") or ("5176491") or ("5727342") or ("5966850") or ("6120237") or ("6354790") or ("6843005") or ("6857843") or ("5471908") or ("4274797") or ("4278394") or ("4318663") or ("4373852") or ("4403905") or ("4431363") or ("4845867") or ("4871292") or ("4950127") or ("5423625") or ("5556217") or ("5810101") or ("5813822") or ("5865492") or ("5971455") or | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/26 16:47 |

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|-----|----|--|--|----|-----|---------------------|
| | | (("5975604") or ("3624785") or ("3872985") or ("3871538") or ("4032015") or ("4049139") or ("4341501") or ("4365428") or ("4370090") or ("4558515") or ("4770597") or ("4771540") or ("5179794") or ("5245770") or ("5316709") or ("5634735") or ("6139212") or ("6196265") or ("6220291") or ("6220291") or ("6230740") or ("6241455") or ("6314667") or ("6321787") or ("6401369") or ("6460569") or ("6619319") or ("4808061") or ("5815960") or ("3787163") or ("4293270") or ("4517756") or ("4595240") or ("4773814") or ("4808027") or ("4810162") or ("4859138") or ("5228231") or ("5400531") or ("5435084") or ("5452529") or ("5537808") or ("5606809") or ("5678332") or ("RE37339") or ("6561717") or ("6662479") or ("4345514") or ("3627156") or ("3586184") or ("3580405") or ("3680722") or ("3669287") or ("3666124") or ("3656595") or ("3633773") or ("3920137") or ("3910044") or ("3896950") or ("3874533") or ("3828950") or ("3807589") or ("3807586") or ("4000616") or ("4015730") or ("4026428") or ("4042131") or ("4133121") or ("4131210") or ("4251933")).PN. | | | | |
| S49 | 2 | ("5463852").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/26 16:47 |
| S50 | 15 | (("4890974" "5242258" "5333400" "5431528" "5456030" "5465513" "5484250" "5546683" "5692852" "5727342" "5732488" "5802753" "6042295" "6058633" "6108951").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/26 17:15 |
| S51 | 12 | (("3705656" "4586867" "4772150" "5049027" "5224553" "5310275" "5419673" "5511329" "5529419" "5546683" "5562397" "5590483").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/26 17:55 |
| S52 | 9 | ("5802753").URPN. | USPAT | OR | ON | 2005/07/26 17:57 |
| S53 | 15 | (("4890974" "5242258" "5333400" "5431528" "5456030" "5465513" "5484250" "5546683" "5692852" "5727342" "5732488" "5802753" "6042295" "6058633" "6108951").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/26 17:59 |

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|-----|-------|---|---|----|-----|---------------------|
| S54 | 5 | ("6241455").URPN. | USPAT | OR | ON | 2005/07/26 17:59 |
| S55 | 21 | ("4030624" "4096957" "4136792" "4187050" "4214840" "4251182" "4295287" "4297074" "4355945" "4373852" "4480955" "4632595" "4643631" "4661036" "4710091" "4726731" "4836741" "4984957" "5010962" "5049027" "5324162"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/26 20:40 |
| S56 | 17 | ("5546683").URPN. | USPAT | OR | ON | 2005/07/26 20:46 |
| S57 | 1308 | (414/722,723,729).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/27 13:46 |
| S58 | 80 | (56/406,408,468,903).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/01/09 18:43 |
| S59 | 1326 | (414/722,723,729).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/01/09 18:43 |
| S60 | 777 | (37/406,408,468,903).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/07/08 21:11 |
| S61 | 1353 | (414/722,723,729).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/07/08 21:11 |
| S62 | 419 | S61 and spring | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/07/08 21:11 |
| S63 | 791 | (37/406,408,468,903).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2006/11/15 15:35 |
| S64 | 65566 | blade with (alarm or signal\$3 or indicat \$4 or beep\$3 or alert\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/15 16:03 |
| S65 | 3923 | blade with (alarm or signal\$3 or indicat \$4 or beep\$3 or alert\$3) with (spin\$4 or turn\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/15 16:04 |
| S66 | 297 | S65 and ("30"/\$.ccls. or "56"/\$.ccls.) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/15 16:04 |

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| S67 | 49 | blade with (alarm or signal\$3 or indicat\$4 or beep\$3 or alert\$3) with (spin\$4 or turn\$3) with (disengag\$3 or disconnect\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/15 16:08 |
| S68 | 135 | blade with (alarm or signal\$3 or indicat\$4 or beep\$3 or alert\$3) with (rotat\$4) with (disengag\$3 or disconnect\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/15 16:27 |
| S69 | 2817 | "135" and ("30"/\$.ccls. or "56"/\$.ccls.) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/15 16:09 |
| S70 | 16 | S68 and ("30"/\$.ccls. or "56"/\$.ccls.) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/15 16:10 |
| S71 | 6 | ("4152881").URPN. | USPAT | OR | ON | 2006/11/15 16:24 |
| S72 | 2 | ("4297829").URPN. | USPAT | OR | ON | 2006/11/15 16:26 |
| S73 | 6 | blade with warn\$3 with (rotat\$4) with (disengag\$3 or disconnect\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/15 16:27 |
| S74 | 6 | ("4316355").URPN. | USPAT | OR | ON | 2006/11/15 16:28 |
| S75 | 2 | ("6843005").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2006/11/17 17:40 |
| S76 | 5 | ("5152351" "5292079" "5386652" "6209237" "6357993").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/11/17 17:41 |
| S77 | 10 | shaw.in. and "37"/\$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/17 18:32 |
| S78 | 144 | (37/458).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2006/11/17 19:35 |
| S79 | 3930 | "ball detent" with spring | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/17 19:35 |

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|-----|------|--|---|----|-----|---------------------|
| S80 | 27 | "37"/\$.ccls. and (ball with detent) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/17 19:54 |
| S81 | 304 | "37"/\$.ccls. and (ball same spring) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2006/11/17 20:52 |
| S82 | 0 | ("6374521,6467203").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2006/11/17 20:52 |
| S83 | 4 | ((("6374521") or ("6467203")).PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2006/11/17 20:52 |
| S84 | 2 | ("6338013").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2006/11/20 14:03 |
| S85 | 945 | (37/406,408,468,903,458).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2007/03/31 20:21 |
| S86 | 1388 | (414/722,723,729).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2007/03/31 20:21 |
| S87 | 433 | S86 and (latch or release or trip\$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/03/31 20:22 |
| S88 | 293 | (37/468).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2007/10/29 13:25 |
| S89 | 26 | S88 and bevel\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/10/29 13:25 |
| S90 | 4 | ("4663866" "4944628" "5010962" "5400531").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/29 13:39 |
| S91 | 13 | ("5467542").URPN. | USPAT | OR | ON | 2007/10/29 13:40 |
| S92 | 1 | ("6163988").URPN. | USPAT | OR | ON | 2007/10/29 13:43 |

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|------|------|---|---|----|-----|---------------------|
| S93 | 15 | ("0832267" "2346757" "2463169" "3736987" "3941262" "4369590" "4542929" "5054990" "5140760" "5197212" "5411102" "5467542").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/29 13:43 |
| S94 | 3 | ("2963183" "5224816").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/29 13:49 |
| S95 | 8 | ("3985249" "3991890" "4067467" "4085856" "4106645" "4136792" "4846624" "4986722").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/29 13:52 |
| S96 | 12 | ("5224816").URPN. | USPAT | OR | ON | 2007/10/29 13:53 |
| S97 | 501 | (403/109.3).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2009/07/02 15:42 |
| S98 | 913 | (403/325).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2009/07/02 15:51 |
| S99 | 1456 | (403/325,327).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2009/07/02 15:51 |
| S100 | 23 | S99 and (excavator or loader or bucket) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | ON | 2009/07/02 15:52 |
| S101 | 2 | ("6502336").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | OR | OFF | 2009/07/02 16:11 |

7/ 2/ 2009 6:01:50 PM

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